

# Part 70 Operating Permit Amendment

**Permit Amendment No.:** 2631-051-0007-V-02-2

**Effective Date:** October 27, 2014

**Facility Name:** International Paper – Savannah  
1201 West Lathrop Avenue  
Savannah, Georgia 31415 Chatham County

**Mailing Address:** P.O. Box 570  
Savannah, Georgia 31402

**Parent/Holding Company:** International Paper Company

**Facility AIRS Number:** 04-13-051-00007

In accordance with the provisions of the Georgia Air Quality Act, O.C.G.A. Section 12-9-1, et seq and the Georgia Rules for Air Quality Control, Chapter 391-3-1, adopted pursuant to and in effect under the Act, the Permittee described above is issued a construction permit for:

The modification of the No. 13 Power Boiler (PB13) for compliance with the Boiler MACT (40 CFR 63 Subpart DDDDD) and the Regional Haze Rule (40 CFR 51.308) emissions limits for HCl and SO<sub>2</sub>.

This Permit Amendment is conditioned upon compliance with all provisions of The Georgia Air Quality Act, O.C.G.A. Section 12-9-1, et seq, the Rules, Chapter 391-3-1, adopted and in effect under that Act, or any other condition of this Permit Amendment and Permit No. 2631-051-0007-V-02-0. Unless modified or revoked, this Permit Amendment expires upon issuance of the next Part 70 Permit for this source.

This Permit Amendment may be subject to revocation, suspension, modification or amendment by the Director for cause including evidence of noncompliance with any of the above; or for any misrepresentation made in Application Nos. 22636 and 22758, dated May 28, 2013, and July 31, 2014; any other applications upon which this Permit Amendment or Permit No. 2631-051-0007-V-02-0 are based; supporting data entered therein or attached thereto; or any subsequent submittal or supporting data; or for any alterations affecting the emissions from this source.

This Permit Amendment is further subject to and conditioned upon the terms, conditions, limitations, standards, or schedules contained in or specified on the attached **18** pages, which pages are a part of this Permit Amendment, and which hereby become part of Permit No. 2631-051-0007-V-02-0.

[Signed]

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Director  
Environmental Protection Division

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**PART 1.0 FACILITY DESCRIPTION****1.3 Process Description of Modification**

International Paper - Savannah has proposed the modification of the No. 13 Power Boiler (Source Code: PB13) in order to comply with the Boiler MACT (40 CFR 63 Subpart DDDDD) and the Regional Haze Rule (40 CFR 51.308) emission limits for HCl and SO<sub>2</sub>. The existing No. 13 Power Boiler has a heat input capacity of 1280 MMBtu/hr and is currently permitted to burn biomass (bark), pulverized coal, and fuel oil. The No. 13 Power Boiler also burns the non-condensable gases (NCGs) and condensate stripper off-gases (SOGs) as the control device for compliance with 40 CFR 60 Subpart BB and 40 CFR 63 Subpart S. The proposed Boiler MACT PSD Project includes the following modifications to the No. 13 Power Boiler: the removal of the capability to fire fuel oil, the addition of load-bearing natural gas burners, and the optimization of combustion controls and the combustion air system.

**PART 3.0 REQUIREMENTS FOR EMISSION UNITS**

Note: Except where an applicable requirement specifically states otherwise, the averaging times of any of the Emissions Limitations or Standards included in this permit are tied to or based on the run time(s) specified for the applicable reference test method(s) or procedures required for demonstrating compliance.

**3.1.1 Additional Emission Units**

Emission Units		Specific Limitations/Requirements		Air Pollution Control Devices	
ID No.	Description	Applicable Requirements/Standards	Corresponding Permit Conditions	ID No.	Description
PB13	No. 13 Power Boiler	40 CFR 52.21 40 CFR 63 Subpart A 40 CFR 63 Subpart DDDDD	3.3.34, 3.3.35, 3.3.36, 3.3.37, 3.3.38, 4.2.8, 4.2.9, 4.2.10, 4.2.11, 4.2.12, 4.2.13, 5.2.1, 5.2.19, 5.2.20, 6.1.7, 6.2.40, 6.2.42, 6.2.43, 6.2.44, 6.2.45, 6.2.46, 6.2.47, 6.2.48, 6.2.49, 6.2.50, 6.2.51	AP07	No. 13 Power Boiler Electrostatic Precipitator
LK07 <sup>#</sup>	No. 7 Lime Kiln <sup>#</sup>	None	3.4.15, 6.2.41	AP01	No. 7 Lime Kiln Electrostatic Precipitator

\* Generally applicable requirements contained in this permit may also apply to emission units listed above. The lists of applicable requirements/standards and corresponding permit conditions are intended as a compliance tool and may not be definitive.

<sup>#</sup> The No. 7 Lime Kiln was not modified in the Boiler MACT PSD Project and is being included in the table above only to include two conditions were added to replace conditions that will no longer be applicable after completion of the Boiler MACT PSD Project.

**3.3 Equipment Federal Rule Standards**

[Condition Nos. 3.3.1 through 3.3.33 – No Changes]

**Boiler MACT PSD Project BACT Limit****NEW CONDITION**

3.3.34 After completion of the Boiler MACT PSD Project, the Permittee shall not discharge or cause the discharge into the atmosphere from the No. 13 Power Boiler (Source Code: PB13) any gases which contain carbon monoxide (CO) emissions in excess of 400 ppm by volume on a dry basis corrected to 3% oxygen on a short term/3-hour average basis.

[40 CFR 52.21, 40 CFR 63.7500 (subsumed) and Table 2, Item 13.a. of 40 CFR 63 Subpart DDDDD (subsumed)]

**40 CFR 63 Subpart DDDDD****NEW CONDITION**

3.3.35 No later than January 31, 2017, the Permittee shall comply with all applicable provisions of 40 CFR 63 Subpart DDDDD, “National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters,” and the applicable provisions of 40 CFR 63 Subpart A, “General Provisions,” as specified in Table 10 to 40 CFR 63 Subpart DDDDD for the operation of the No. 13 Power Boiler (Source Code: PB13).

[40 CFR 63 Subparts A and DDDDD]

**NEW CONDITION**

- 3.3.36 No later than January 31, 2017, the Permittee shall not discharge or cause the discharge into the atmosphere from the No. 13 Power Boiler (Source Code: PB13) any gases which:
- a. Contain hydrogen chloride (HCl) emissions in excess of 0.022 pounds per million Btu, excluding periods of startup and shutdown.  
[40 CFR 63.7500 and Table 2, Item 1.a. of 40 CFR 63 Subpart DDDDD]
  - b. Contain mercury (Hg) emissions in excess of  $5.7 \times 10^{-6}$  pounds per million Btu, excluding periods of startup and shutdown.  
[40 CFR 63.7500 and Table 2, Item 1.b. of 40 CFR 63 Subpart DDDDD]
  - c. Contain filterable particulate matter (PM) emissions in excess of 0.44 pounds per million Btu, excluding periods of startup and shutdown.  
[40 CFR 63.7500 and Table 2, Item 13.b. of 40 CFR 63 Subpart DDDDD]

**NEW CONDITION**

- 3.3.37 No later than January 31, 2017, the Permittee shall comply with the startup and shutdown requirements in Table 3 of 40 CFR 63 Subpart DDDDD for the No. 13 Power Boiler (Source Code: PB13).  
[40 CFR 63.7500 and Table 3 of 40 CFR 63 Subpart DDDDD]

No. 13 Power Boiler

**NEW CONDITION**

- 3.3.38 After the completion of the Boiler MACT PSD Project, the Permittee shall not discharge or cause the discharge into the atmosphere from the No. 13 Power Boiler (Source Code: PB13) any gases which:
- a. Contain particulate matter (PM) emissions in excess of 0.075 pounds per million Btu (lb/MMBtu).  
[40 CFR 52.21, 40 CFR 60.42(a)(1) (subsumed), and 391-3-1-.02(2)(d)2(iii) (subsumed)]
  - b. Contain sulfur dioxide (SO<sub>2</sub>) emissions in excess of:
    - i. 1.2 pounds per million Btu (lb/MMBtu) derived from solid fossil fuel or solid fossil fuel and wood residue.  
[40 CFR 60.43(a)(2) and 391-3-1-.02(2)(g)1(ii)]
    - ii. An average of 2822 pounds per hour (lb/hr) during any continuous 24-hour period.  
[40 CFR 52.21]
    - iii. An average of 4281 pounds per hour (lb/hr) during any continuous three-hour period.  
[40 CFR 52.21]

- c. Contain nitrogen oxides (NO<sub>x</sub>), expressed as NO<sub>2</sub>, in excess of:
- i. 0.20 pounds per million Btu (lb/MMBtu) derived from gaseous fossil fuel.  
[40 CFR 60.44(a)(1) and 391-3-1-.02(2)(d)4(iii)]
  - ii. 0.30 pounds per million Btu (lb/MMBtu) derived from gaseous fossil fuel and wood residue.  
[40 CFR 60.44(a)(2)]
  - iii. 0.70 pounds per million Btu (lb/MMBtu) derived from solid fossil fuel or solid fossil fuel and wood residue.  
[40 CFR 60.44(a)(3) and 391-3-1-.02(2)(d)4(i)]
  - iv. When different fossil fuels are burned simultaneously in any combination, the applicable standard, in pounds per million Btu (lb/MMBtu), shall be determined by proration using the following formula:  
[40 CFR 60.44(b) and 391-3-1-.02(2)(d)4(iv)]

$$PS_{NOx} = \frac{x(0.20) + z(0.70)}{x + z}$$

where

$PS_{NOx}$  = The prorated standard for NO<sub>x</sub> when burning different fuels simultaneously, in pounds per million Btu (lb/MMBtu), derived from all fossil fuels fired or from all fossil fuels and wood residue fired

$x$  = The percentage of total heat input derived from gaseous fossil fuel

$z$  = The percentage of total heat input derived from solid fossil fuel

### **3.4 Equipment SIP Rule Standards**

[Condition Nos. 3.4.1 through 3.4.14 – No Changes]

#### No. 7 Lime Kiln

##### **NEW CONDITION**

- 3.4.15 After the completion of the Boiler MACT PSD Project, the Permittee may burn on-specification used oil in the No. 7 Lime Kiln (Source Code: LK07) provided that the used oil meets the fuel sulfur content limits set forth in Condition No. 3.4.3.  
[391-3-1-.02(2)(g)2 and 391-3-1-.02(2)(a)3(i)]

**PART 4.0 REQUIREMENTS FOR TESTING****4.1 General Testing Requirements**

[Condition Nos. 4.1.1 through 4.1.2 – No Changes]

- 4.1.3 Performance and compliance tests shall be conducted and data reduced in accordance with applicable procedures and methods specified in the Division's Procedures for Testing and Monitoring Sources of Air Pollutants. The methods for the determination of compliance with emission limits listed under Sections 3.2, 3.3, 3.4 and 3.5 which pertain to the emission units listed in Section 3.1 are as follows:

[a. through w. – No Changes]

40 CFR 63 Subpart DDDDD for the No. 13 Power Boiler

NEW CONDITION

- x. For filterable PM, HCl, Hg, and CO performance testing on the No. 13 Power Boiler, Method 1 for the selection of sampling port location and number of traverse points.  
[Table 5, Items 1.a., 3.a., 4.a., and 5.a. of 40 CFR 63 Subpart DDDDD]

NEW CONDITION

- y. For filterable PM, HCl, and Hg performance testing on the No. 13 Power Boiler, Method 2, Method 2F, or Method 2G for the determination of velocity and volumetric flow rate of stack gas.  
[Table 5, Items 1.b., 3.b., and 4.b. of 40 CFR 63 Subpart DDDDD]

NEW CONDITION

- z. For filterable PM, HCl, and Hg performance testing on the No. 13 Power Boiler, Method 3A, Method 3B, or ANSI/ASME PTC 19.10-1981 for the determination of oxygen or carbon dioxide concentration of stack gas.  
[Table 5, Items 1.c., 3.c., and 4.c. of 40 CFR 63 Subpart DDDDD]

NEW CONDITION

- aa. For CO performance testing on the No. 13 Power Boiler, Method 3A, Method 3B, ASTM D6522-00 (Reapproved 2005), or ANSI/ASME PTC 19.10-1981 for the determination of oxygen concentration of stack gas.  
[Table 5, Item 5.b. of 40 CFR 63 Subpart DDDDD]

NEW CONDITION

- bb. For filterable PM, HCl, Hg, and CO performance testing on the No. 13 Power Boiler, Method 4 for the determination of moisture content of stack gas.  
[Table 5, Items 1.d., 3.d., 4.d., and 5.c. of 40 CFR 63 Subpart DDDDD]

NEW CONDITION

- cc. For CO performance testing on the No. 13 Power Boiler, Method 10 for the determination of carbon monoxide (CO) emissions. Use a measurement span value of two times the concentration of the applicable emission unit.  
[Table 5, Item 5.d. of 40 CFR 63 Subpart DDDDD]

**NEW CONDITION**

- dd. For filterable PM performance testing on the No. 13 Power Boiler, Method 5 or Method 17 for the determination of particulate matter (PM) emissions.  
[Table 5, Item 1.e. of 40 CFR 63 Subpart DDDDD]

**NEW CONDITION**

- ee. For filterable PM, HCl, and Hg performance testing on the No. 13 Power Boiler, Method 19 F-factor methodology for the conversion of emissions concentration to lb per MMBtu emission rates.  
[Table 5, Items 1.f., 3.f., and 4.f. of 40 CFR 63 Subpart DDDDD]

**NEW CONDITION**

- ff. For HCl performance testing on the No. 13 Power Boiler, Method 26 or Method 26A for the determination of hydrogen chloride (HCl) emissions.  
[Table 5, Items 3.e. of 40 CFR 63 Subpart DDDDD]

**NEW CONDITION**

- gg. For Hg performance testing on the No. 13 Power Boiler, Method 29, Method 30A, or Method 30B for the determination of mercury (Hg) emissions.  
[Table 5, Item 4.e. of 40 CFR 63 Subpart DDDDD]

Minor changes in methodology may be specified or approved by the Director or his designee when necessitated by process variables, changes in facility design, or improvement or corrections that, in his opinion, render those methods or procedures, or portions thereof, more reliable.  
[391-3-1-.02(3)(a)]

[Condition No. 4.1.4 – No Changes]

**NSPS or NESHAP Test Report Submittal**

**NEW CONDITION**

- 4.1.5 The Permittee shall submit performance test reports to the US EPA's WebFIRE database in accordance with any applicable NSPS or NESHAP standards (40 CFR 60 or 40 CFR 63) that contain Electronic Data Reporting Requirements.  
[391-3-1-.02)(8)(a) and 391-3-1-.02(9)(a)]



## 4.2 Specific Testing Requirements

[Condition Nos. 4.2.1 through 4.2.7 – No Changes]

### BACT Compliance Performance Testing

#### NEW CONDITION

- 4.2.8 Within 180 days of the startup of the Boiler MACT PSD Project modifications to the No. 13 Power Boiler (Source Code: PB13), the Permittee shall conduct performance testing on the No. 13 Power Boiler to determine compliance with the carbon monoxide (CO) emissions limit in Condition No. 3.3.34. The data collected during the aforementioned performance test shall be used to establish the appropriate minimum hourly average oxygen concentration as measured by the oxygen analyzer required in Condition No. 5.2.1.d.  
[40 CFR 52.21, 40 CFR 70.6(a)(3)(i), 391-3-1-.02(3), and 391-3-1-.02(6)(b)1]

#### NEW CONDITION

- 4.2.9 After completion of the initial performance test required in Condition No 4.2.8, the Permittee shall conduct annual performance testing on the No. 13 Power Boiler (Source Code: PB13) to determine compliance with the carbon monoxide (CO) emissions limit in Condition No. 3.3.34. The annual performance tests shall be completed no more than 13 months after the previous performance test. If performance tests for two consecutive years are below 75 percent of the emissions limit in Condition No. 3.3.34, testing shall be conducted only once every three years, not to exceed 37 months between consecutive tests. If results obtained at such reduced test frequency are 75 percent or higher, testing shall again be required annually until two consecutive tests are less than 75 percent at which time reduced testing frequency shall again apply. The periodic performance testing required under 40 CFR 63 Subpart DDDDD shall satisfy the testing requirements of this Condition.  
[40 CFR 52.21, 40 CFR 70.6(a)(3)(i), 391-3-1-.02(3), and 391-3-1-.02(6)(b)1]

### 40 CFR 63 Subpart DDDDD

#### NEW CONDITION

- 4.2.10 If the Permittee elects to comply through performance testing, the Permittee shall comply with all applicable provisions of 40 CFR 63.7510 and 40 CFR 63.7530 for initial compliance demonstrations through performance testing under 40 CFR 63 Subpart DDDDD for the No. 13 Power Boiler (Source Code: PB13). The initial performance tests shall be conducted in accordance with 40 CFR 63.7520 and Table 5 of 40 CFR 63 Subpart DDDDD. The Permittee shall establish operating limits in Table 4 of 40 CFR 63 Subpart DDDDD, as applicable, in accordance with 40 CFR 63.7530 and Table 7 of 40 CFR 63 Subpart DDDDD. The initial compliance demonstrations shall be completed no later than 180 days after the compliance date of January 31, 2017.  
[40 CFR 63.7510 and 40 CFR 63.7530]

**NEW CONDITION**

- 4.2.11 If the Permittee elects to comply through performance testing, the Permittee shall comply with all applicable provisions of 40 CFR 63.7515 for performance testing under 40 CFR 63 Subpart DDDDD subsequent to the initial performance tests required by Condition No. 4.2.9 for the No. 13 Power Boiler (Source Code: PB13). The subsequent performance tests shall be conducted on an annual basis in accordance with 40 CFR 63.7520 and Table 5 of 40 CFR 63 Subpart DDDDD, except as specified in 40 CFR 63.7515(b) through (e), (g), and (h). The Permittee shall either verify that the applicable operating limits in Table 4 of 40 CFR 63 Subpart DDDDD have not changed or reestablish the operating limits in accordance with 40 CFR 63.7530 and Table 7 of 40 CFR 63 Subpart DDDDD.  
[40 CFR 63.7515]

**NEW CONDITION**

- 4.2.12 No later than January 31, 2017, the Permittee shall conduct the initial tune-up on the No. 13 Power Boiler (Source Code: PB13) as specified in 40 CFR 63.7540(a)(10). If the facility does not operate and maintain a continuous O<sub>2</sub> trim system, each subsequent tune-up shall be no more than 13 months after the previous tune-up. If the facility does operate and maintain a continuous O<sub>2</sub> trim system, each subsequent tune-up shall be no more than five years after the previous tune-up.  
[40 CFR 63.7500, 40 CFR 63.7510(e), 40 CFR 63.7515(d), 40 CFR 63.7540(a)(10), 40 CFR 63.7540(a)(12), and Table 3, Items 1 and 3 of 40 CFR 63 Subpart DDDDD]

**NEW CONDITION**

- 4.2.13 No later than January 31, 2017, the Permittee shall have the one-time energy assessment performed by a qualified energy assessor on the No. 13 Power Boiler (PB13). The energy assessment must include the following with the extent of the evaluation for the items a. through e. listed below appropriate for the on-site technical hours listed in 40 CFR 63.7575:  
[40 CFR 63.7500, 40 CFR 63.7510(e), and Table 3, Item 4 of 40 CFR 63 Subpart DDDDD]
- a. A visual inspection of the boiler system
  - b. An evaluation of operating characteristics of the boiler systems, specifications of energy using systems, operating and maintenance procedures, and unusual operating constraints.
  - c. An inventory of major energy use systems consuming energy from affected boilers and which are under the control of the boiler owner/operator.
  - d. A review of available architectural and engineering plans, facility operation, and maintenance procedures and logs, and fuel usage.
  - e. A review of the facility's energy management practices and provide recommendations for improvements consistent with the definition of energy management practices, if identified.

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- f. A list of cost-effective energy conservation measures that are within the facility's control.
- g. A list of energy savings potential of the energy conservation measures identified.
- h. A comprehensive report detailing the ways to improve efficiency, the cost of specific improvements, benefits, and the time frame for recouping those investments.

**PART 5.0 REQUIREMENTS FOR MONITORING (Related to Data Collection)****5.2 Specific Monitoring Requirements**

- 5.2.1 The Permittee shall install, calibrate, maintain, and operate a system to continuously monitor and record the indicated pollutants on the following equipment. Each system shall meet the applicable performance specification(s) of the Division's monitoring requirements. [391-3-1-.02(6)(b)1 and 40 CFR 70.6(a)(3)(i)]

[a. through b. – No Changes]

No. 13 Power Boiler

**MODIFIED CONDITION**

- c. Opacity for the No. 13 Power Boiler (Source Code: PB13)  
[40 CFR 63.7525(c), 40 CFR 60.45(a), and 391-3-1-.02(2)(d)3]

**NEW CONDITION**

- d. Oxygen for the No. 13 Power Boiler (Source Code: PB13)  
[40 CFR 52.21 and 40 CFR 63.7525(a)]

[Condition Nos. 5.2.2 through 5.2.18 – No Changes]

40 CFR 63 Subpart DDDDD

**NEW CONDITION**

- 5.2.19 If the Permittee elects to comply through fuel analysis, the Permittee shall comply with all applicable provisions of 40 CFR 63.7510 and 40 CFR 63.7530 for initial compliance demonstrations through fuel analysis under 40 CFR 63 Subpart DDDDD for the No. 13 Power Boiler (Source Code: PB13). The initial fuel analyses shall be conducted in accordance with 40 CFR 63.7521 and Table 6 of 40 CFR 63 Subpart DDDDD. The Permittee shall establish operating limits in Table 4 of 40 CFR 63 Subpart DDDDD, as applicable, in accordance with 40 CFR 63.7530 and Table 8 of 40 CFR 63 Subpart DDDDD. The initial compliance demonstrations shall be completed no later than 180 days after the compliance date of January 31, 2017.  
[40 CFR 63.7510 and 40 CFR 63.7530]

**NEW CONDITION**

- 5.2.20 If the Permittee elects to comply through fuel analysis, the Permittee shall comply with all applicable provisions of 40 CFR 63.7515 for fuel analyses under 40 CFR 63 Subpart DDDDD subsequent to the initial fuel analyses required by Condition No. 5.2.19 for the No. 13 Power Boiler (Source Code: PB13). The subsequent fuel analyses shall be conducted on a monthly basis in accordance with 40 CFR 63.7521 and Table 6 of 40 CFR 63 Subpart DDDDD, except as specified in 40 CFR 63.7515(e). A fuel analysis shall be conducted on any new type of fuel before burning a new type of fuel in the No. 13 Power Boiler, and the applicable emission rates shall be recalculated in accordance with 40 CFR 63.7540.  
[40 CFR 63.7515 and 40 CFR 63.7540]

**PART 6.0 OTHER RECORD KEEPING AND REPORTING REQUIREMENTS****6.1 General Record Keeping and Reporting Requirements**

[Condition Nos. 6.1.1 through 6.1.6 – No Changes]

- 6.1.7 For the purpose of reporting excess emissions, exceedances or excursions in the report required in Condition No. 6.1.4, the following excess emissions, exceedances, and excursions shall be reported:

[391-3-1-.02(6)(b)1 and 40 CFR 70.6(a)(3)(i)]

- a. Excess emissions: (means for the purpose of this Condition and Condition No. 6.1.4, any condition that is detected by monitoring or record keeping which is specifically defined, or stated to be, excess emissions by an applicable requirement)

[i. through x. – No Changes]

No. 13 Power Boiler

NEW CONDITION

- xi. After completion of the Boiler MACT PSD Project, any 30-day rolling average sulfur dioxide (SO<sub>2</sub>) emissions from the No. 13 Power Boiler (Source Code: PB13), calculated in accordance with Condition No. 6.2.40.a, in excess of 1.2 pounds per million Btu (lb/MMBtu) when firing solid fossil fuel or solid fossil fuel and wood residue

[40 CFR 60.45(g)(2) and 391-3-1-.02(2)(g)1]

- b. Exceedances: (means for the purpose of this Condition and Condition No. 6.1.4, any condition that is detected by monitoring or record keeping that provides data in terms of an emission limitation or standard and that indicates that emissions (or opacity) do not meet the applicable emission limitation or standard consistent with the averaging period specified for averaging the results of the monitoring)

[i. through xiv. – No Changes]

No. 13 Power Boiler

NEW CONDITION

- xv. After completion of the Boiler MACT PSD Project, any 24-hour period during which the sulfur dioxide (SO<sub>2</sub>) emissions from the No. 13 Power Boiler (Source Code: PB13), calculated in accordance with Condition No. 6.2.40.b, are in excess of 2822 pounds per hour (lb/hr).

[40 CFR 52.21]

- c. Excursions: (means for the purpose of this Condition and Condition No. 6.1.4, any departure from an indicator range or value established for monitoring consistent with any averaging period specified for averaging the results of the monitoring)

[i. through xi. – No Changes]

No. 13 Power Boiler

**NEW CONDITION**

- xii. After completion of the Boiler MACT PSD Project, any 30-day rolling average oxygen concentration for the No. 13 Power Boiler (Source Code: PB13) that is below the minimum value determined during the most recent performance test required in Condition No. 4.2.8 or 4.2.9, whichever is applicable.  
[40 CFR 52.21]

Regional Haze

**NEW CONDITION**

- xiii. After completion of the Boiler MACT PSD Project, any twelve-month rolling period during which the SO<sub>2</sub> emissions from the No. 13 Power Boiler (Source Code: PB13), calculated in accordance with Condition No. 6.2.40.c, are in excess of 6578 tons. The first compliance period shall be January through December 2016.  
[40 CFR 51.308]

- d. In addition to the excess emissions, exceedances and excursions specified above, the following should also be included with the report required in Condition No. 6.1.4:

[i. through xii. – No Changes]

No. 13 Power Boiler

**NEW CONDITION**

- xiii. No later than January 31, 2017, each daily block average opacity reading from the No. 13 Power Boiler (Source Code: PB13) that exceeds 10 percent. For each applicable opacity reading, include all of the information in 40 CFR 63.7550(e).  
[40 CFR 63.7550, 40 CFR 70.6(a)(3)(i), and 391-3-1-.02(6)(b)1]

**6.2 Specific Record Keeping and Reporting Requirements**

[Condition Nos. 6.2.1 through 6.2.39 – No Changes]

No. 13 Power Boiler

**NEW CONDITION**

- 6.2.40 After completion of the Boiler MACT PSD Project, the Permittee shall calculate and maintain the following records of the sulfur dioxide (SO<sub>2</sub>) emission rate for the No. 13 Power Boiler (Source Code: PB13):
- a. For each day of operation or portion of day of operation, the 30-day rolling average SO<sub>2</sub> emission rate, in pounds per million Btu (lb/MMBtu), to determine compliance with the SO<sub>2</sub> emission standard in Condition No. 3.3.38.b.i.  
[40 CFR 60.43(a)&(b), 40 CFR 60.45(g)(2), and 391-3-1-.02(2)(g)1]
- b. The 24-hour rolling average SO<sub>2</sub> emission rate, in pounds per hour (lb/hr), to determine compliance with the SO<sub>2</sub> emission standard in Condition No. 3.3.38.b.ii.  
[40 CFR 52.21]

- c. The twelve-month rolling total SO<sub>2</sub> emissions, in tons per twelve consecutive months, to determine compliance with the SO<sub>2</sub> emission standard in Condition No. 3.3.31. The first compliance period shall be January through December 2016.  
[40 CFR 51.308]

The average SO<sub>2</sub> emission rates shall be calculated using the results of the coal analyses required by Condition No. 5.2.5 and the emission factor of 0.087 pounds of SO<sub>2</sub> per million Btu (lb SO<sub>2</sub>/MMBtu) for the average sulfur content of the biomass fired. The calculation of the 24-hour rolling average SO<sub>2</sub> emission rate in paragraph (b) and the twelve-month rolling total of SO<sub>2</sub> emissions in paragraph (c) of this Condition shall include the factor developed to reflect the maximum SO<sub>2</sub> emission rate resulting from the combustion of non-condensable gases (NCGs) and stripper off gases (SOGs).

**NEW CONDITION**

6.2.41 After completion of the Boiler MACT PSD Project, for each shipment of residual oil received that is to be fired in the No. 7 Lime Kiln (Source Code: LK07), the Permittee shall obtain a fuel supplier certification, which shall include the following information:  
[391-3-1-.02(2)(g)2, 40 CFR 70.6(a)(3)(i), and 391-3-1-.02(6)(b)1]

- a. Name of the oil supplier;
- b. Location of the oil when the sample was drawn for analysis to determine the sulfur content of the oil, specifically including whether the oil was sampled as delivered to the Permittee or whether the sample was drawn from oil in storage at the oil supplier's or oil refiner's facility or other location;
- c. Sulfur content of the oil from which the shipment came (or of the shipment itself);
- d. Method used to determine the sulfur content of the oil;
- e. Quantity of fuel oil received; and
- f. Heat content of fuel oil received.

For the purposes of this permit, residual oil is defined as any fuel oil that does not comply with the specifications for Nos. 1 and 2 fuel oils, as defined by ASTM D396, "Standard Specification for Fuel Oils", and all Nos. 4, 5, and 6 fuel oils, as defined by ASTM D396.

**40 CFR 63 Subpart DDDDD**

**NEW CONDITION**

6.2.42 No later than October 30, 2016, the Permittee shall submit to the Division for approval a compliance plan to demonstrate initial and continuous compliance with the emission limitations, fuel analyses, fuel specifications, and work practice standards for 40 CFR 63 Subpart DDDDD for the No. 13 Power Boiler (Source Code: PB13).  
[40 CFR 63 Subpart DDDDD]

**NEW CONDITION**

- 6.2.43 For any performance test to be conducted in accordance with 40 CFR 63 Subpart DDDDD, the Permittee shall submit a Notification of Intent to conduct a performance test at least 60 days before the performance test is scheduled to begin.  
[40 CFR 63.7545(d)]

**NEW CONDITION**

- 6.2.44 The Permittee shall submit a Notification of Compliance Status to the Division for the No. 13 Power Boiler (Source Code: PB13). The Notification of Compliance Status shall be submitted before the close of business on the 60<sup>th</sup> day following the completion of the initial compliance demonstration according to 40 CFR 63.10(d)(2). The Notification of Compliance Status report must contain all the information specified in 40 CFR 63.7545(e)(1) through (8), as applicable.  
[40 CFR 63.9(h)(2)(ii) and 40 CFR 63.7545(e)]

**NEW CONDITION**

- 6.2.45 For 40 CFR 63 Subpart DDDDD, the Permittee shall submit periodic reports as specified in 40 CFR 63.7550 and Table 9 of 40 CFR 63 Subpart DDDDD on the schedule specified in 40 CFR 63.7550(b) for the operation of the No. 13 Power Boiler (Source Code: PB13). The reports shall contain the following:  
[40 CFR 63.7550]
- a. Information required in 40 CFR 63.7550(c)(1) through (5);
  - b. If there are no deviations from any emission limitation (emission limit and operating limit) that applies and there are no deviations from the requirements for work practice standards in Table 3 of 40 CFR 63 Subpart DDDDD that apply, a statement that there were no deviations from the emission limitations and work practice standards during the reporting period. If there were no periods during which the CMSs, including continuous emissions monitoring system and continuous opacity monitoring system, were out-of-control as specified in 40 CFR 63.8(c)(7), a statement that there were no periods during which the CMSs were out-of-control during the reporting period;
  - c. If there is a deviation from any emission limitation (emission limit and operating limit) where a CMS is not used to comply with that emission limit or operating limit, or a deviation from a work practice standard during the reporting period, the report must contain the information in 40 CFR 63.7550(d); and
  - d. If there were periods during which the CMSs, including continuous emissions monitoring system and continuous opacity monitoring system were out-of-control as specified in 40 CFR 63.8(c)(7), or otherwise not operating, the report must contain the information in 40 CFR 63.7550(e)



**NEW CONDITION**

- 6.2.46 For 40 CFR 63 Subpart DDDDD, the Permittee shall maintain the following records for the operation of the No. 13 Power Boiler (Source Code: PB13).  
[40 CFR 63.7555]
- a. A copy of each notification and report submitted by the Permittee to comply with 40 CFR 63 Subpart DDDDD, including all documentation supporting any Initial Notification or Notification of Compliance Status or semiannual compliance reports, according to the requirements in 40 CFR 63.10(b)(2)(xiv).
  - b. Records of performance tests, fuel analyses, or other compliance demonstrations and performance evaluations as required in 40 CFR 63.10(b)(2)(viii).
  - c. For each CEMS and continuous monitoring system the Permittee must keep records according to 40 CFR 63.7555(b)(1) through (5).
  - d. Records required in Table 8 of 40 CFR 63 Subpart DDDDD including records of all monitoring data and calculated averages for applicable operating limits, such as opacity, pressure drop, pH, and operating load, to show continuous compliance with each emission limit and operating limit.
  - e. Applicable records in 40 CFR 63.7555(d)(1) through (11).
  - f. Records of the calendar date, time, occurrence and duration of each startup and shutdown.
  - g. Records of the type(s) and amount(s) of fuels used during each startup and shutdown.

**NEW CONDITION**

- 6.2.47 For 40 CFR 63 Subpart DDDDD, the Permittee shall maintain records as follows:
- a. Records shall be in a form suitable and readily available for expeditious review.  
[40 CFR 63.10(b)(1) and 40 CFR 63.7560(a)]
  - b. Records shall be kept for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record.  
[40 CFR 63.10(b)(1) and 40 CFR 63.7560(b)]
  - c. Each record shall be kept on site, or they must be accessible from on site (for example, through a computer network), for at least two years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to 40 CFR 63.10(b)(1). The Permittee can keep the records off site for the remaining three years.  
[40 CFR 63.10(b)(1) and 40 CFR 63.7560(b)]

Boiler MACT PSD Project

**NEW CONDITION**

6.2.48 Before beginning actual modifications as described in Application No. 22636, the Permittee shall document and maintain a record of the following information:  
[391-3-1-.02(7)(b)15.(i)(I)]

- a. Description of project;
- b. Identification of the emissions unit(s) whose emissions of a regulated NSR pollutant could be affected by the project; and
- c. A description of the applicability test used to determine that the project is not a major modification for any regulated NSR pollutant, including the baseline actual emission, the projected actual emissions, the amount of emissions excluded under 40 CFR 52.21(b)(41)(ii)(c) and an explanation for why such amount was excluded, and any netting calculations, if applicable.
- d. The records required above shall be retained for a period of 10 years following resumption of regular operations after the change, or for a period of 15 years following resumption of regular operations after the change if the project increased the design capacity of or potential to emit of a regulated NSR pollutant at such emissions unit.

The records required by this Condition shall be retained for a period of fifteen years following resumption of regular operations after the completion of the project.

6.2.49 The Permittee shall calculate and maintain records of the following information for a period of ten years following resumption of regular operations after completion of the Boiler MACT Project described in Section 1.3 of this Permit:

- a. The annual emissions of each regulated New Source Review (NSR) pollutant, in tons per year (tpy) on a calendar year basis; and  
[391-3-1-.02(7)(b)15(i)(III)]
- b. The actual increase in emissions of each regulated NSR pollutant due to demand growth, in tons per year (tpy) on a calendar year basis.  
[391-3-1-.02(7)(b)15(i)(IV)]

The records required by this Condition shall be retained for a period of five years past the end of each calendar year.

6.2.50 The Permittee shall submit a report to the Division within 60 days after the end of each year during which the records must be generated under Condition No. 6.2.49 setting out the annual emissions from the No. 13 Power Boiler (Source Code: PB13) of each regulated New Source Review (NSR) pollutant and, if applicable, the actual increase in emissions from the No. 13 Power Boiler of each regulated NSR pollutant due to demand growth during the calendar year that preceded submission of the report.  
[391-3-1-.02(7)(b)15(i)(V)]

## **Title V Permit Amendment**

- 6.2.51 Within 60 days of the completion of the performance tests required by Condition No. 4.2.8 or 4.2.9, the Permittee shall submit to the Division the test report detailing the results of the performance test. The submittal shall also include the minimum hourly average oxygen concentration, as measured by the oxygen analyzer in accordance with Condition No. 5.2.1.d, determined during the performance test.  
[40 CFR 52.21, 40 CFR 70.6(a)(3)(i), and 391-3-1-.02(6)(b)1]

**PART 7.0 OTHER SPECIFIC REQUIREMENTS****7.14 Specific Conditions Associated with this Amendment**

- 7.14.1 Within 30 days of the date of the event, the Permittee shall submit a notification to the Division of the startup date of the modified No. 13 Power Boiler (Source Code: PB13).  
[40 CFR 70.6(a)(3)(i) and 391-3-1-.02(6)(b)1]
- 7.14.2 After completion of the Boiler MACT PSD Project, the following conditions will be null and void:  
[40 CFR 70.6(a)(3)(i) and 391-3-1-.02(6)(b)1]

Part 3.0	Part 6.0	
	6.1	6.2
3.3.7	6.1.7.a.vi	6.2.6
3.4.11	6.1.7.b.xiv	6.2.12

- 7.14.3 The following conditions apply upon completion of the Boiler MACT PSD Project:  
[40 CFR 70.6(a)(3)(i) and 391-3-1-.02(6)(b)1]

Part 3.0	Part 4.0	Part 5.0	Part 6.0	
			6.1	6.2
3.3.34	4.2.8	5.2.1.d	6.1.7.a.xi	6.2.40
3.3.38	4.2.9		6.1.7.b.xv	6.2.41
3.4.15			6.1.7.c.xii	6.2.42
			6.1.7.c.xiii	6.2.48
				6.2.49
				6.2.50
				6.2.51

- 7.14.4 The following conditions become applicable no later than January 31, 2017 for compliance with 40 CFR 63 Subpart DDDDD:  
[40 CFR 70.6(a)(3)(i) and 391-3-1-.02(6)(b)1]

Part 3.0	Part 4.0	Part 5.0	Part 6.0	
			6.1	6.2
3.3.35	4.2.10	5.2.19	6.1.7.d.xiii	6.2.43
3.3.36	4.2.11	5.2.20		6.2.44
3.3.37	4.2.12			6.2.45
	4.2.13			6.2.46
				6.2.47